For Research Use Only

## PHGDH Monoclonal antibody

Catalog Number:67591-1-lg 2 Publications



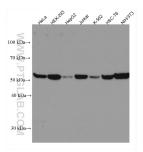
Basic Information	Catalog Number: 67591-1-lg	GenBank Accession Number: BC000303		Purification Method: Protein G purification
	Concentration:	GeneID (NCBI): 26227 UNIPROT ID: O43175 Full Name: phosphoglycerate dehydrogenase		CloneNo.:
	1000 ug/ml			1E8B8 Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:2000-1:8000 IF/ICC 1:400-1:1600
	Source:			
	Mouse			
	Isotype:			
	lgG1			
	Immunogen Catalog Number:	r: Calculated MW:		
	AG6877	57 kDa		IF/ICC 1.400-1.1000
		Observed	MW:	
		57 kDa		
Applications	Tested Applications:		Positive Controls:	
	WB, IHC, IF/ICC, IP, ELISA	WB : HeLa ce		lls, HEK-293 cells, HepG2 cells, Jurkat
	Cited Applications: WB		cells, K-562 c	ells, HSC-T6 cells, NIH/3T3 cells
		IP : HeLa cells,		
	Species Specificity: human, mouse, rat		IHC : human urothelial carcinoma tissue,	
	Cited Species: IF/ICC : HeLa cells,			
	human, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
Background Information	PHGDH(D-3-phosphoglycerate dehydrogenase) is also named as 3-PGDH, PGDH3 and belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. It catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD+/NADH as a cofactor. 3-PGDH deficiency is a rare recessive inborn error in the biosynthesi of the amino acid L-serine characterized clinically by congenital microcephaly, psychomotor retardation, and intractable seizures(PMID:19235232).			
Notable Publications	Author	Pubmed ID	Journal	Application
	Youming Zhu	35081364	Mol Cell	WB
	Xinhui Lu	38159553	Int Immunopharmaco	ol WB
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an			

 For technical support and original validation data for this product please contact:

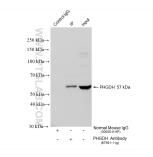
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

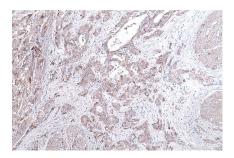
## Selected Validation Data



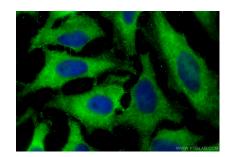
Various lysates were subjected to SDS PAGE followed by western blot with 67591-1-Ig (PHGDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-PHGDH (IP:67591-1-lg, 4ug; Detection:67591-1-lg 1:3000) with HeLa cells lysate 980 ug.



Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using 67591-1-1g (PHGDH antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PHGDH antibody (67591-1-Ig, Clone: 1E8B8) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).